

October 11, 1985
NRC/THI-85-075

MEMORANDUM FOR: Harold R. Denton, Director
Office of Nuclear Reactor Regulation
Bernard J. Snyder, Program Director
THI Program Office

FROM: William D. Travers, Deputy Program Director
THI Program Office

SUBJECT: NRC THI PROGRAM OFFICE WEEKLY STATUS REPORT FOR
OCTOBER 7, 1985 - October 11, 1985

1. PLANT STATUS

- The facility remains in long term cold shutdown with the Reactor Coolant System (RCS) vented to the reactor building atmosphere and the reactor vessel head and plenum assembly removed from the reactor vessel.
- The plenum is on its storage stand in the deep end of the fuel transfer canal. A dam has been installed between the deep and shallow ends of the fuel transfer canal. The deep end is filled with water to a depth of about 20 feet (about 5 feet above the top of the plenum).
- The modified internals indexing fixture is installed on the reactor vessel flange and is flooded to elevation 327 feet 6 inches (15½ feet above the top of the core region). The defueling platform is installed over the Internal Indexing Fixture in preparation for defueling.
- Calculated reactor decay heat is less than 12 kilowatts.
- RCS cooling is by natural heat loss to the reactor building ambient atmosphere. Incore thermocouple readings range from 71°F to 92°F with an average of 80°F. Average cold leg temperature will no longer be reported.
- The average reactor building temperature is 60°F. The reactor building airborne activity is 9.1 E-7 uCi/cc Tritium and 4.9 E-11 uCi/cc particulate, predominantly Cesium 137.

2. WASTE MANAGEMENT

- The Submerged Demineralizer System (SDS) continues processing batch 124 from neutralizer tanks (WDL-T-8 A/B) to SDS monitor tanks (SDS-T-1 A/B). To date 21,501 gallons from this batch have been processed.

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- EPICOR II commenced processing batch 268, 3,046 gallons, from Chemical Cleaning Building sump to CC-T-2. Commenced processing batch 269 from SDS-T-1A to CC-T-2. To date 10,578 gallons from this batch have been processed.
- Total volume processed through SDS to date is 2,984,874 gallons, and the total volume processed through EPICOR II is 2,694,902 gallons.

3. DOSE REDUCTION/DECONTAMINATION ACTIVITIES

- Decontamination activities are continuing on the 281' level of the auxiliary building.
- Average general area radiation dose rate is 40 mrem per hour on the 347' level of the reactor building and is 67 mrem per hour on the 305' level of the reactor building.

4. ENVIRONMENTAL MONITORING

- US Environmental Protection Agency (EPA) sample analysis results show TMI site liquid effluents to be in accordance with regulatory limits, NRC requirements, and the City of Lancaster Agreement.
- TMI water samples taken by EPA at the plant discharge to the river consisted of seven daily composite samples taken from September 21 through September 28, 1985. A gamma scan detected no reactor related activity.
- The Lancaster water sample taken at the water works intake and analyzed by EPA consisted of a seven day composited sample taken from September 22 through September 28, 1985. A gamma scan detected no reactor related radioactivity.
- The NRC outdoor airborne particulate sampler at the TMI Site collected a sample between October 2 and October 9, 1985. No reactor related radioactivity was detected. Analysis showed Iodine-131 and Cesium-137 concentrations to be less than the lower limits of detectability.

5. REACTOR BUILDING ACTIVITIES

- Defueling Water Cleanup System (DWCS) preoperational testing and modification continued.
- Work is in progress on the canister positioning system and canister handling bridge.
- Installation of the vacuum defueling system is in progress.
- Canister transfer system has been installed and will be load tested.
- Lower vessel debris samples have been removed and are undergoing preliminary analyses onsite. Samples will be shipped to Idaho National Engineering Laboratory for further analyses.

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6. AUXILIARY AND FUEL HANDLING BUILDING ACTIVITIES

- Installation of the DNCS continued. Partial DNCS turnover for processing RCS during early defueling is expected to be completed in October.
- All four of the fuel canister storage racks are being positioned in the spent fuel pool. Fuel canister handling bridge has been load tested and indexing is in progress.

7. RADIOACTIVE MATERIAL/WASTE SHIPMENTS

These shipments were made from Three Mile Island during August and September 1985.

- August 7 - 108 drums, 2 boxes - Combined unit contaminated laundry to Royersford, Pennsylvania.
- August 9 - Unit 2 - Reactor Building cable samples were sent to a laboratory at Richland, Washington.
- August 13 - 79 drums - Combined unit contaminated laundry to Royersford, Pennsylvania.
- August 21 - 71 drums, 1 box - Combined unit contaminated laundry to Royersford, Pennsylvania.
- August 22 - Unit 1 - Liquid samples were sent to a contractor vendor laboratory at Rockville, Maryland.
- August 27 - 65 drums, 1 box - Combined unit contaminated laundry to Royersford, Pennsylvania.
- August 27 - Unit 2 - Lead bricks were sent to a contractor at Columbia, South Carolina.
- August 28 - Unit 1 - Dewatered resins and solidified liquids in steel liners were sent to Hanford, Washington.
- August 30 - Unit 2 - Temporary waste solidification unit sent to vendor at Columbia, Maryland.
- September 4 - Unit 2 - Reactor Building cable samples were sent to a laboratory at Hanford Washington.
- September 6 - Unit 1 - Liquid samples to Rockville, Maryland.
- September 10 - Unit - A solenoid-operated valve and pipe from the Reactor Building were sent to Scoville, Idaho.
- September 16 - Unit 2 - Steel liner containing solidified demineralizer resins was sent to Hanford, Washington.
- September 17 - 87 drums, 3 boxes - Combined unit contaminated laundry to Royersford, Pennsylvania.
- September 18 - Unit 1 - Dewatered demineralizer resins to Barnwell, South Carolina.
- September 19 - Unit 1 - Three liners containing dewatered demineralizer resins and solidified liquids to Hanford, Washington.
- September 27 - 57 drums, 3 boxes - Combined unit contaminated laundry to Royersford, Pennsylvania.

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8. NRC EVALUATIONS IN PROGRESS

- Technical Specification Change Requests numbers 48 and 50.
- Recovery Operations Plan Change numbers 29, 31, and 32.
- Fuel Canister Technical Evaluation, Revision 1.
- Defueling Safety Evaluation.
- Application for seismic exemption.
- SDS Technical Evaluation and System Description Update.
- Core Stratification Sample Safety Evaluation.
- Heavy Load Handling Safety Evaluation Report.
- Boron Dilution Hazard Report
- Defueling Water Cleanup System Technical Evaluation Report, Revision 7.

9. PUBLIC MEETING

The next meeting of the Advisory Panel is scheduled for October 16, 1985 in Lancaster, Pennsylvania at 7:00 PM. The meeting will be held in the Lancaster Council Chambers at 201 North Duke Street. Dr. H. Arnold Muller, Secretary, Department of Health will review the results of the Health Department's recently completed epidemiology studies.

Persons desiring the opportunity to speak before the Panel are asked to contact Mr. Thomas Smithgall at 717-291-1042 or write to him at 2122 Marietta Avenue, Lancaster, Pennsylvania 17503.

ORIGINAL SIGNED BY:
William D. Travers

William D. Travers
Deputy Program Director
THI Program Office

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Harold R. Denton
Bernard J. Snyder

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